ceramic composition 112

ceramic composition 212

n HO
$$\longrightarrow$$
 Si \longrightarrow Ar₂ \longrightarrow Si \longrightarrow OH $+$ n+1 H \longrightarrow Si \longrightarrow Ar₁ \longrightarrow Si \longrightarrow H R 302 R excess

$$H \xrightarrow{R} Ar_1 \xrightarrow{R} R \xrightarrow{R} Ar_2 \xrightarrow{R} Ar_2 \xrightarrow{R} Ar_1 \xrightarrow{R} Ar_1 \xrightarrow{R} H$$

$$\downarrow R \qquad \downarrow R \qquad \downarrow$$